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APPLICATION NO. FILING DATE		ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/489,929 01/24/2000		01/24/2000	Richard A. Lodge	9-13528-77US	. 6470
20988	7590	08/11/2004		EXAMINER	
OGILVY		_	TRAN, PABLO N		
1981 MCG SUITE 160		EGE AVENUE	ART UNIT PAPER NUMBE		
MONTRE	-	I3A2Y3	2685	Qe	
CANADA			DATE MAILED: 08/11/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	pplicant(s)					
Office Action Summary									
		09/489,92		LODGE ET AL.					
	Onice Action Summary	Examiner		Art Unit					
·	The MAIL INC DATE of this commun	Pablo N T		2685					
Period fo	The MAILING DATE of this commun r Reply	ication appears on the	cover sneet with the c	orrespondence add	ress				
THE I - Exter after - If the - If NO - Failu	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNI asions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm period for reply specified above is less than thirty (3) period for reply is specified above, the maximum stare to reply within the set or extended period for reply eply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no evilunication. 0) days, a reply within the state attutory period will apply and wwill, by statute, cause the app	ent, however, may a reply be timutory minimum of thirty (30) days ill expire SIX (6) MONTHS from lication to become ABANDONEI	nely filed s will be considered timely. the mailing date of this com D (35 U.S.C. § 133).	nmunication.				
Status									
1)⊠	Responsive to communication(s) file	d on 14 June 2004.							
•	☐ This action is FINAL . 2b)⊠ This action is non-final.								
,	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
-	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4)⊠ 5)□ 6)⊠ 7)⊠	4) Claim(s) 1-54 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-9,13-18,21-29,33-38,41-47 and 49-52 is/are rejected. 7) Claim(s) 10-12,19,20,30-32,39,40,48,53 and 54 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.								
Applicati	on Papers								
10)	The specification is objected to by the The drawing(s) filed on is/are: Applicant may not request that any object Replacement drawing sheet(s) including The oath or declaration is objected to	a) accepted or b) ction to the drawing(s) b the correction is requir	ne held in abeyance. See ed if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFF	, ,				
Priority u	nder 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
Attachment	c(s)								
	e of References Cited (PTO-892)		4) Interview Summary						
3) Inform	e of Draftsperson's Patent Drawing Review (Pnation Disclosure Statement(s) (PTO-1449 or No(s)/Mail Date		Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:		152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-9, 13-18, 21-29, 33-38, 41-47, and 49-52 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Akita et al.* (5,383,221) in view of *Ludwig* (6,765,889).

As per claims 1, 21, and 41, *Akita et al.* disclosed a method of controlling data traffic in a wireless communications network comprising a plurality of wireless terminals and base stations wherein the method having the steps of examining performance each wireless link to identify a poorly performing wireless link and temporarily interrupting the bi-directional data transmission over the poorly performing wireless link (col. 6/ln. 4-63).

Akita et al. do not specifically disclose that the method of controlling the data traffic is at the base station. However, *Ludwig* teaches that such method of controlling the data traffic can be facilitated at the mobile station, base station, or at the network (col. 14/ln. 58-67). Therefore, it would have been obvious to one of ordinary skill in the art to provide such method of data processing between devices of Ludwig to the communication system of *Akita et al.* in order to allow efficient handling of data

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transmission and effectively utilize system resources for a zone, cell, or a predetermined area within the network.

As per claims 2, 22, and 42, the modified system of *Akita et al.* disclosed monitoring one or more performance parameters related to each wireless link but do not specifically disclose comparing each monitoring performance parameters to a respective predetermined threshold. However, such is notoriously well known in the art that the examiner takes Official Notice of such. Therefore, it would have been obvious to one of ordinary skill in the art to provide such method of comparing the link quality against a threshold, well known, to the monitoring method of *Akita et al.*, to provide reliable and sensitive measurement in order in order to improve communication links but also to effectively utilize system resources.

As per claims 3-4, 9, 13-14, 17, 23-24, 29, 33-34, 37, 43-44, 47, 49, and 50-51, the modified system of *Akita et al.* do not specifically disclosed the performance parameters related to each wireless link are based on interference on the wireless link and comprises any one or more of a S/N ratio, a user data throughput rate, a C/I ratio, a BER ratio, suspend frames, or dropped frames. However, such is notoriously well known in the art that the examiner takes Official Notice of such. Therefore, it would have been obvious to one of ordinary skill in the art to provide such measurements of the performance parameters as stated above, well known, to the monitoring method of *Akita et al.*, to provide reliable and sensitive measurement in order to save power but also to effectively utilize system resources.

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As per claims 5, 25, and 45, the modified system of *Akita et al.* do not explicitly disclosed an average, taken over a number of successive burst, of any one or more of the S/N ratio, the C/I ratio, the user data throughput rate, or the BER ratio. However, such is notoriously well known in the art that the examiner takes Official Notice of such. Therefore, it would have been obvious to one of ordinary skill in the art to provide such method of taking an average measurement of such performance parameter, well known, to the communication systems of *Akita et al.* to provide an utmost accurate measurement prior to disconnected the poorly performance wireless link.

As per claims 6 and 26, the modified system of *Akita et al.* disclosed suspending transmission of a data frame over the poorly performing wireless link (see Akita et al., col. 6/ln. 4-63).

As per claims 7-8, 15-16, 27-28, and 35-36, the modified system of *Akita et al.* do not disclosed resuming transmission of the data frame after a delay period of random length. However, such is notoriously well known in the art that the examiner takes Official Notice of such. Therefore, it would have been obvious to one of ordinary skill in the art to provide such method of re-transmitting the drop frame(s), well known, to the communication systems of *Akita et al.* to provide a reliable communication system such that data transmission will be delivered to the user.

As per claims 18, 38, and 52, the modified system of *Akita et al.* do not disclosed dropping the communication links if a number of dropped frames exceed a threshold. However, such is notoriously well known in the art that the examiner takes Official Notice of such. Therefore, it would have been obvious to one of ordinary skill in the art

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to provide such method of drop the communication link(s), well known, to the communication systems of *Akita et al.* to effectively utilize system resources.

As per claim 46, *Akita et al.* disclosed suspending transmission of a data frame over the poorly performing wireless link (see Akita et al., col. 6/ln. 4-63).

Allowable Subject Matter

3. Claims 10-12, 19-20, 30-32, 39-40, 48, and 53-54 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Sawyer (6,603,972) and Inouchi et al. (6,603,975) disclose method for transmission disruption in a radiotelephone system.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pablo Tran whose telephone number is (703)308-7941. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel Hunter, can be reached at (703)308-6732.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

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Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

August 7, 2004

PABLO N.TRAN

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